IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Gole, et al.				Confirmation No.: TBA/Parent - 5593									
			00/000 //2	Group Art Unit:	TBA/Parent - 2814								
Serial No.: TBA/Parent - 09/820,413				Examiner: TBA/Parent - Shrinivas H. Rao									
Filed: January 26, 2004 Parent - March 29, 2001				D 1 . 1 . (200									
For:	Silico	n Based	Nanospheres and Nanowire	Docket No. 62004-1662 res									
INFORMATION DISCLOSURE STATEMENT													
Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450													
Sir:	This information disclosure statement is filed in accordance with 37 C.F.R. §§ 1.56, 1.97, and 1.98, and specifically:												
	under 37 CFR 1.97(b), or (within Three months of filing national application; or date of entry of international application; or before mailing date of first office action on the merits; whichever occurs last)												
		under 3°	7 CFR 1.97(c) together with either a: Statement Under 37 C.F.R. 1.97(e), a \$180.00 fee under 37 CFR 1.17(p. (After the CFR 1.97(b) time period, but before to occurs first)), or	allowance, whichever								
		under 3'	7 CFR 1.97(d) together with a: Statement under 37 CFR 1.97(e), at a \$180.00 petition fee set forth in 37 (Filed after final office action or notice of allowing issue fee)	7 CFR 1.17(p).	pefore payment of the								
	cy of this	s applicat	cck in the amount of \$. Please tion, please charge any fees requirequested to credit any overpayment to	red to Deposit Account	osit account . At any time during the pursuant to 37 CFR 1.25. The								
	Applicant(s) submit herewith Form PTO 1449A - Information Disclosure Statement by Applicant together with copies (where required) of patents, publications or other information of which applicant(s) are aware, which applicant(s) believe(s) may or may not be material to the examination of this application and for which there may be a duty to disclose in accordance with 37 CFR 1.56. As required by 37 C.F.R. §1.98(a), a legible copy of each document is provided.												
	A concise explanation of the relevance of foreign language patents, foreign language publications and other foreign language information listed on PTO Form 1449, as presently understood by the individual(s) designated in 37 CFR 1.56(c) most knowledgeable about the content is given on the attached sheet, or where a foreign language patent is cited in a search report or other action by a foreign patent office in a counterpart foreign application, an English language version of the search report or action which indicates the degree of relevance found by the foreign office is listed on the form PTO 1449 and is enclosed herewith.												

The following rights are reserved by the Applicant(s): the right to establish the patentability of the claimed invention over any of the listed documents should they be applied as reference, and/or the right to prove that some of these documents may not be prior art, and/or the right to prove that some of these documents may not be enabling for the teachings they purport to offer.

This statement should not be construed as a representation that an exhaustive search has been made, or that information more material to the examination of the present application does not exist. Any statements or identifications regarding the relevance of any portion(s) of cited references should not be construed as a representation that the most relevant portion(s) have been identified, and the absence of such statements or identifications should not be construed as representations that there are no relevant portion(s). The Examiner is specifically requested not to rely solely on the materials submitted herewith. The Examiner is requested to conduct an independent and thorough review of the documents, and to form independent opinions as to their significance.

It is requested that the information disclosed herein be made of record in this application and that the Examiner initial and return a copy of the enclosed PTO-1449 to indicate the documents have been considered.

Respectfully Submitted,

THOMAS, KAYDEN, HORSTEMEYER

& RISLEY, L.L.P.

By:

Christopher B. Linder, Reg. No. 47,751

100 Galleria Parkway, Suite 1750 Atlanta, Georgia 30339-5948 770-933-9500

EXPRESS MAIL

I hereby certify that this correspondence is being deposited with the United States Postal Service as "Express Mail Post Office to Addressee" in an envelope addressed to: Commissioner for Patent, Mail Stop Patent Application, P.O. Box 1450, Alexandria, VA, on January 2004.

Express Mail Mb EL 993859778U

Signature do Bryan

Form PTC)-1449		Attorney Doc 62004-1662	ket No.	Serial No. TBA					
IN	FOR	MATION DISCL	Applicant Gole, et al.							
		(Use several sheets	Filing Date January 26, 2004			Group TBA				
	·		U.S. PA	TENT DOCUMEN	NTS					
Examiner Initials	Item	Document Number	Date	Nai	me	Class	Subclass	Filing Date If Appropriate		
			FOREIGN	PATENT DOCUM	1ENTS					
		Document	Date	Country		Class	Subclass	Translation		
		Number						Yes No		
						<u> </u>				
						-			-	
	1	OTHER DOCU	 MENTS (Includ	ling Author, Title,	Date, Pertinent	Pages, et	L c.)		<u> </u>	
	A Gole, Stout, Rauch, Wang, Direct synthesis of silicon nanowires, silica nanospheres, and wire-like nanosphe agglomerates; Applied Physics Letters, vol. 76, no. 17, April 24, 2000, pages 2346-2348									
	В	Hu, Odom, Lieber; Chemistry and Physics in One Dimension: Synthesis and Properties of Nanowires and Nanotubes, Acc. Chem. Res. 1999, vol. 32, no. 5, 1999, pages 435-445								
	С	C Gole, White; Nanocatalysis: Selective Conversion of Ethanol to Acetaldehyde Using Monoatomically D Copper on Silica Nanospheres; Journal of Catalysis, pages 2-15								
D Crooks, Zhao, Sun, Chechik, Yeung; Dendrimer-Encapsulated Metal Nanoparticles: Synthesis, Capplications to Catalysis; Accounts of Chemical Research, vol. 34, no. 3, March 2001; pages 181									n, and	
	Е	Kenvin and White; Supp of Catalysis; 1992; pages	•	repared from Monon	uclear Copper Co	omplexes:	Catalytic Pr	operties; Jo	ournal	
* EXAMII	NER: Iı	nitial if citation considered, w	hether or not citati	on is in conformance w	with MPEP § 609.	Draw line t	hrough citatio	n if not in		
conformance	e and no	t considered. Include copy of	this form with nex	kt communication to the	e applicant.					
EXAMINI	ER'S S	IGNATURE:		DAI.	E CONSIDERED	·-				
	-			Patent and Tra	demark Office; U	J. S. DEPA	RTMENT (OF COMM	ERCE	